

Chapter 9

FINISHING

Introduction	<p>This work consists of the final shaping and dressing of shoulders, ditches, and slopes, by machine or by hand methods, to the required smoothness, elevation and cross section as shown on the plans or as directed. Finish work is usually undertaken after the paving has been completed. If the initial grading was not checked for reasonable conformance to the planned cross sections, the finishing operation may produce an excess or deficiency of material.</p>
Shoulders	<p>Unless otherwise provided, the shoulders will be constructed with earth, or other approved material which contains no sod, weeds, sticks, roots or other perishable matter. The inside edges will be built up above the surface of the adjoining pavement and compacted with a roller weighing no less than 5 tons. Rolling and shaping will continue until the desired cross section, and compaction, is obtained. Shoulder areas that are not accessible to the roller will be compacted with some other mechanical means that produces satisfactory results. Unless otherwise permitted the outside edge of shoulder will be parallel to the pavement edges, and will be compacted for their full width. The grade and slope of the shoulders may vary through super-elevated curves but in no case should water be allowed to pond at the edge of the pavement, or anywhere on the shoulder surface.</p>
Ditches	<p>Ditches will be constructed and finished to the grades and cross section as shown on the plans, or as directed. All ditches must be constructed so that they will drain and be free from water pockets. Abrupt changes in grade and alignment of side ditches can cause erosion and should be avoided.</p>
Slopes	<p>All cut and fill slopes should be constructed to the cross sections as shown on the plans, or as revised. Cut and fill slopes should be finished to the degree ordinarily obtained by a grader blade. Slopes will be uniform without bulges and or dips. The length of transition for a slope change should be long enough to avoid the appearance of an abrupt change. A slight roll back of the slope at the ends of a cut section is desirable for a more pleasing appearance. When finishing rock cuts, the rock face should be carefully inspected for loose or overhanging rock that might fall on the roadway. All should be removed.</p>

Earth Graded Roads Earth graded roads will be finish graded to a reasonably smooth, uniform grade to at least within +/- 0.1' of the required profile and cross section as shown on the plans. Shaping and compacting will be performed with approved equipment capable of providing a well drained, finished roadway.

Final Trimming And Cleaning Final trimming and cleaning will consist of trimming and cleaning the otherwise completed highway between right-of-way lines for its entire contract length. At the time of acceptance of the project, the following conditions should be found for the entire length and right-of-way width of the contract.

- * All debris and rubbish shall be removed and properly disposed of off of the right-of-way.
- * All cut and fill slopes, and any other areas that were disturbed, shall be left reasonably smooth and uniform.
- * Any loose and overhanging rock should be removed.
- * Weeds, brush, and stumps shall be cut close to the ground and properly disposed of as directed.
- * Waterways should be left unobstructed.
- * Bridges shall be cleaned of all rubbish, sand, stone, gravel and dirt, including the floors, roadways, railings, bottom chords, shoes and seats.
- * Culverts and other drainage structures shall be left clean for their entire length.

These provisions apply for all new construction projects, including construction of pregrading contracts, and paving contracts on pregraded projects. For new construction of the second lane of a divided highway, the final trimming and cleaning requirement will apply only to those areas of the right-of-way that were disturbed by the new construction. Unless otherwise specified for any contract built under traffic, the final trimming and cleaning provisions shall apply only to that portion of the right-of-way disturbed by the construction operations.

Measurement And Payment Finishing shoulders, ditches, slopes, earth graded roads and final trimming and cleaning will not be measured for payment unless otherwise provided. The cost of these items will be included in the various pay items of the contract.

Summary The motorist's public opinion of a newly completed road construction project is based largely on appearance. Careful attention to fine details during the finishing operation can do much to enhance the completed project in the eyes of the consumer.

